

Autumn 2010

MARINE TORQUE TALK

What's happening on the water from ...

VOLVO PENTA

NEW D3-220 HP

WHITE POINTER 750

Whitepointer Boats of Gisborne were the first to install the all new D3-220, 5 cylinder, common rail fuel injected diesel engine into one of their 750 hulls. This vessel has been a common platform for this engine's predecessor, the D3-190. Even though the all new D3 is also available in 200HP the discerning customer chose to go up to the higher 220 HP version and the choice has paid off.

From the first sea-trial, results show the vessel has gained approx 2.5 knots of top end speed reaching 36.5 knots but more importantly at a cruise speed of around 24 knots the fuel consumption has dropped by approximately 10%. All the new Volvo Penta Aquamatic stern drive models now come standard with the P.T.A. (Power Trim Assistant) function and the Trip Fuel computer software as standard.

Trip Computer

Just as in your car, you can now have advanced trip computer functions in your boat. Trip distance, average speed and – not least – instant fuel consumption and remaining fuel range to help you plan your trip.*

Trip computer software

As a standard feature to the tachometer and the EVC display, this software will make trip computer functions available for your engine. The system is extremely flexible and the functions you get depend on what sensors you choose. The trip computer information is easily navigated via the EVC Panel.



The additional data available is:

- Instant fuel rate (volume/hour)
- Trip fuel
- Instant fuel consumption (volume/distance) *
- Average fuel consumption
- Trip distance *
- Estimated remaining distance *
- Average fuel rate
- Trip time

*Information available in Trip Computer depends on engine model and senders



PTA – Power Trim Assistant

Standard for Aquamatic drives with EVC, the Power Trim Assistant trims automatically for a safer, more comfortable ride, rapid acceleration and high top speed. It also results in better fuel economy and lower overall exhaust emissions.

Power Trim Assistant for sterndrive

The Power Trim Assistant is standard for stern drive packages with Volvo Penta's EVC platform – Electronic Vessel Control. With the Power Trim Assistant your Aquamatic drive will trim automatically according to your settings. The system is delivered with standard settings, but you can easily customise your personal settings for rpm and trim angle in order to optimize the function for your boat model.

Five set points

The system has five set points for drive angles at five different engine rpm. You improve acceleration, top speed and comfort on your boat and you can fully focus on driving. It also results in better fuel economy and lower overall exhaust emissions. The drive is trimmed in during acceleration to get you onto the plane quicker and then gradually trimmed out at higher engine rpm. You get perfect visibility and a comfortable ride.

Manual override

If you need to change your running attitude you can, at any time, override the Power Trim Assistant by using the manual power trim buttons on the EVC panel. Next time you adjust the engine rpm, as it passes one of the set points, the Power Trim Assistant will trim the drive back to the preset trim position.

Features

- The drive is automatically trimmed at the specified engine rpm.
- Improved driving safety.
- Automatically improves comfort.
- Automatically gets the boat onto the plane quicker.
- Full manual override at any time.





ECO-DRIVING AUTOMATICALLY

Volvo Penta Powertrim assistant gives you optimum drive trim – automatically and at all speeds. This gives your boat a perfect running attitude that improves performance, reduces fuel consumption – and thereby CO₂ emissions.

Better boating with less environmental impact.



THE POWERTRIM ASSISTANT.
ANOTHER EXAMPLE OF
THE VOLVO PENTA GREEN COMMITMENT.

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Volvo Penta IPS Marine Commercial Range

With the IPS system, Volvo Penta has now introduced a pod system for planing applications, such as fast workboats, pilot boats and patrol boats. The IPS programme is now being expanded further still, with new and larger drive units coupled to the 13 litre marine diesel. Volvo Penta is launching a new power class, using the D13 which is the IPS1050 package.

With forward-facing and counter-rotating propellers, the IPS system is the undisputed market leader in pod installations for planing craft. The first stage of the IPS system was based on Volvo Penta's 6-litre diesel engine. Last year, a new power class was launched with larger drive units and powered by Volvo Penta's 11-litre engine (called IPS2).

This year, Volvo Penta is launching a third stage (IPS3) based on its 13-litre marine diesel. The new IPS package generates the equivalent of 1050 hp per engine, compared with conventional inboard installations. This means that Volvo Penta can now offer the IPS system for workboats, passenger ferries and patrol boats up to 30 metres and 40 knots.

More powerful pods

Larger engines with higher power output and higher torque place big demands on the drive units. With this in mind, Volvo Penta has developed a larger and even more powerful IPS unit as well as a completely new series of propellers for the IPS1050.

The larger drive unit has all the advantages and features that made the original IPS system so successful.

The underwater body and propellers have been developed with the help of advanced computerized models together with extensive cavitation tunnel tests and boat testing. The result is a highly efficient integrated system for marine propulsion.

Cleaner and Quieter

Better efficiency than inboard shafts give the IPS1050 better performance combined with lower fuel consumption and - not least - lower total emissions. In addition, both noise and vibration are substantially lower.

Volvo Penta covers the whole speed range for the IPS1050, from about 28 to about 40 knots, with seven highly efficient propeller packages, which are available as standard products. This gives significant advantages for both shipyards and owners.

13-litre engine

The engine for the new power class is Volvo Penta's 13-litre marine diesel (D13), equipped with dual-stage turbo-charging technology and developing 800 horsepower. This 13-litre engine has been developed with the help of ultramodern diesel engine technology.

The dual-stage turbo-charging system has a first-stage twin-entry turbine that enables pulse-charging, which results in a very high torque from low rpm. At higher rpm, a second turbo gradually takes over, so the engine retains high power even at higher rpm. This charge air is both inter-cooled and after-cooled.

EMS 2, the new engine control system developed by Volvo Penta, regulates fuel injection timing and pressure. The system controls the unit injectors, one per cylinder, which operate at a pressure of as much as 2000 bar and atomize the fuel for optimum combustion.

Total emissions satisfy - by a wide margin—the EU Inland waterways stage 3A, US EPA tier 2 for Marine Commercial and IMO tier 2, in force from January 2011.

Boats from 10 to 30 metres

The IPS system is offered as a double, triple or quad engine installation. This means that the IPS system covers boats from 10 metres all the way up to 30 meters.

There is no difference for the driver whether the boat is powered by two, three or four IPS systems. Acceleration and shifting are done in the same way with twin, single lever, controls. No additional controls are needed.

The IPS units are compact, which enables completely new and bold boat design solutions. Onboard space is much larger, while the time needed by the boat builders for installation is reduced by 50%, in some cases even more.

Functions for easy maneuvering

All Volvo Penta IPS models are available with a joystick. This lets the driver control the boat by simply moving the joystick in the direction he or she wants the boat to move which is a great help in docking and other low-speed maneuvering. Also available is the Dynamic Positioning System that holds the boat's heading and keeps it within a very limited area. Twin high-precision GPS receivers determine the boat's position and heading. Special software transforms the data into steering angles, gear shifts and throttle positions to keep the boat still.

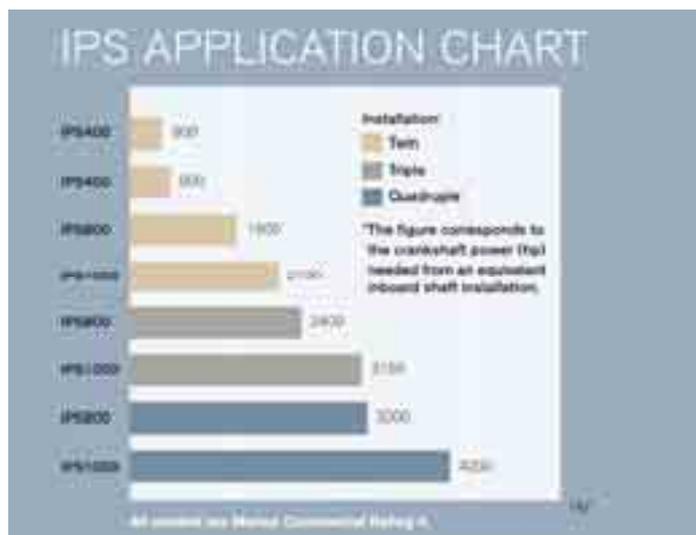


REDUCE CO₂ - WITH ONE LOOK

Look at your Volvo Penta Trip Computer to know your boat's fuel consumption per nautical mile*. An essential tool to help you optimize cruising speed and running attitude - thereby reducing CO₂ emissions.

Better boating with less environmental impact.

*Information available in Trip Computer depends on engine model and sensors.



THE TRIP COMPUTER.
ANOTHER EXAMPLE OF
THE VOLVO PENTA GREEN COMMITMENT.

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REPOWER SUCCESS FOR SEAQUIP MARINE

Ron, the owner, had been happy with his 2655 Sierra Bayliner but increasing unreliability meant that he could not enjoy it as he should. He approached Seaquip looking for a solution. They looked at the existing driveline, a 460 Ford big block driving an OMC leg. Upon inspection the engine was beyond economical repair and the stern drive, whilst functioning, was showing serious signs of corrosion. A remanufactured short block was considered but the cost exceeded a brand new Volvo Penta 5.7 V8 bobtail, however the extra cost of the complete Volvo Penta package with controls, instruments and Volvo Penta's new power trim assist made a complete repower the best option guaranteed.

Installation was straight forward and the transom cut out was very close to the original. The prop sizing gurus at Volpower came up with F2 props which proved to be right on the mark. On the sea trial a top speed of 33 knots at 5100 rpm was achieved, a vast improvement on 22 knots with the old set up. Ron has done less than 2 hours running but reports that it gets along really nicely. What's most important is it's going to keep doing it for a long time and Ron can enjoy his boat which is why he bought it in the first place.



WhisperGen™ Heat & Power System

WhisperGen™ automatically and quietly manages your batteries and your hot water, starting and stopping without the need for human intervention.

The DC WhisperGen™ is a 70Amp(12V) or 35Amp (24V) battery charger that also produces 5.5kW of hot water.

This hot water can be used as part of your heating requirement and also to heat your water for domestic purposes (enough energy to heat 300 litres within 2½ hours).

At maximum output, diesel consumption is only 0.75litres per hour. Conversion of fuel to electricity and heat energy is greater than 90%, which means that the DC WhisperGen™ produces no visible exhaust fumes and no obvious smell even when running at full capacity.

The DC WhisperGen™ works well in conjunction with any other form of electrical or heating generation including solar heating, solar (Photo Voltaic), wind, another generator, or boiler.

Lightweight, compact, smart and very quiet.

To find out how to purchase contact: enquiry@volpower.co.nz

COASTLINE MARINE

Coastline Marine, the Volvo Penta Dealer servicing the Bay of Plenty/Waikato area has recently moved to new premises at 32 Newton Street, Mount Maunganui.



Two new staff members have joined Coastline Marine.

Grant Allen, who was previously the National Service Manager at Volpower N.Z. Limited for over 13 years joined Coastline in March, in the role of Service Technician and Bridget Collis has been working for two weeks in the role of Office Administrator.



2 YEAR WARRANTY ON ALL NEW VOLVO PENTA MARINE ENGINES

*Applies to non-commercial use only. Conditional on annual service by authorized Volvo Penta dealers.

VOLVO PENTA MARINE DEALER LIST

NEW ZEALAND:

OPUA: Lowes Marine Services. Paihia Ph 09-402-8375

WHANGAREI: Ray Roberts Marine. Whangarei Ph 09-438-3296

MATAKANA: Matakana Marine & Engineering Ltd. Matakana Ph 09-422-7822

WHANGAPARAOA: Seaquip Marine Services Limited.

Whangaparaoa Ph 09-424-1260

AUCKLAND:

Ovlov Marine Ltd. Westhaven Ph 09-377-4285

Ovlov Marine - Pine Harbour Limited. Beachlands Ph 09-5365249

Allvo Marine & Engineering Ltd. Howick Ph 09-535-9189

Bensemam Boating Centre Ltd. Westpark Marina Ph 09-416 2190

WHITIANGUI: Pacific Coast Marine & Diesel. Whitianga Ph 07-866-0551

BAY OF PLENTY/WAIKATO: Coastline Marine Limited.

Tauranga Ph 07-574-9613

TAUPO: Fleet Marine Limited. Taupo Ph 07-378-8514

NEW PLYMOUTH: West Coast Marine. New Plymouth Ph 06-759-0939

GISBORNE: Harbourview Marine Ltd. Gisborne Ph 06-868-8686

NAPIER: Hawkes Bay Marine (2005) Ltd. Napier Ph 06-843-5000

WANGANUI: Marine Services Wanganui Ltd. Wanganui Ph 06-345-6958

PORIRUA: Kapiti Propeller & Marine. Porirua Ph 04 233 6164

WELLINGTON: Strait Marine Parts & Services Limited.

Wellington Ph 04-568-8062

PICTON: Marine Engineering Ltd. Picton Ph 03-573-6477

PORT NELSON: Aimex Ltd. Port Nelson Ph 03-548-1439

KAIKOURA: Kaikoura Marine Services Ltd. Kaikoura Ph 03-319-5276

CHRISTCHURCH: Southern Viking Ltd. Christchurch Ph 03-348-8976

WANAKA: Torque Marine. Wanaka Ph 03-443-6404

FIJI:

NADI: Yacht Help Fiji. Nadi Ph 679-675-0911-2

WEBSITE INFO: Visit our website for new and used engines and trans, parts, accessories, servicing etc. www.volvopenta.co.nz

Published by Volpower N.Z. Limited, P.O. Box 58744, Botany, Manukau 2163. Phone: 09 274 4305 Fax: 09 274 4306 **0800 VOLPOWER**
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